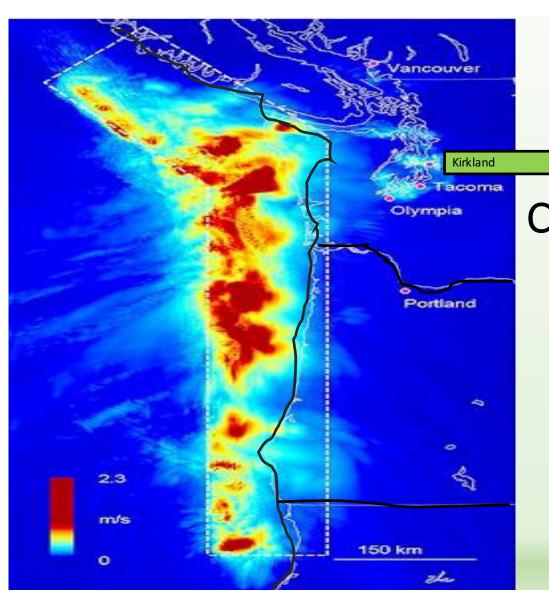


Cascadia Subduction Zone (CSZ)
Catastrophic Earthquake and Tsunami Functional Exercise
Tuesday June 7th through Saturday June 11th 2016



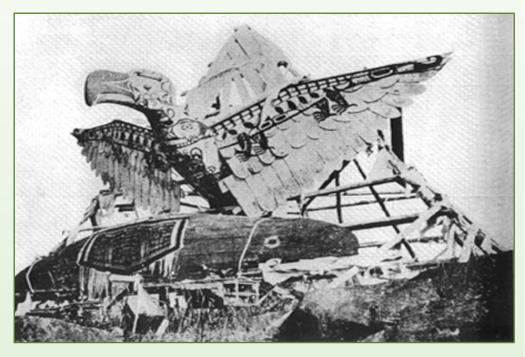


Cascadia Subduction Zone

- 700 miles long
- From Vancouver B.C. Canada
- All coastal lands in Washington and Oregon
- To northern California
- Last rupture was January 27th 1700

Evidence



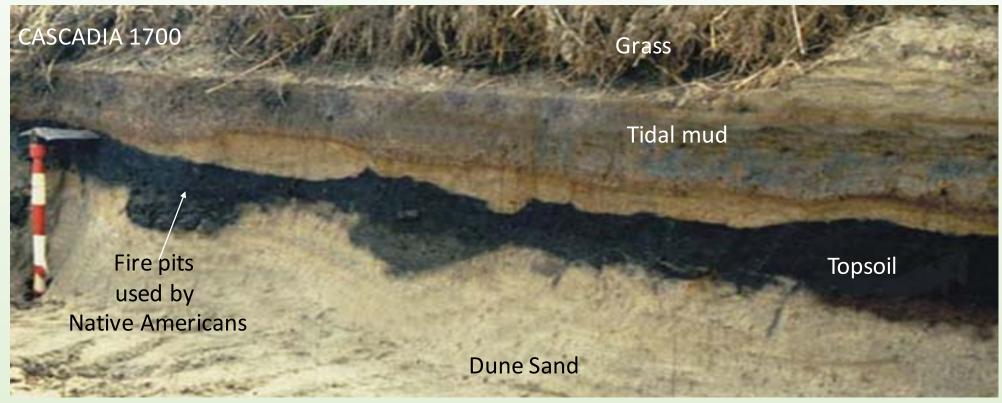


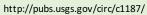
Thunderbird and Killer Whale – A Tillamook legend

https://www.pnsn.org/outreach/native-american-stories/thunderbird-and-whale/totem-art



Evidence







Evidence



This Tsunami Model from NOAA shows a full rip of the Cascadia Subduction Zone will be an international event from South America to



Australia

Modified Mercalli Intensity Scale		
Intensity	Shaking	
1	Not felt	
2	Weak	
3	Weak	
4	Light	
5	Moderate	
6	Strong	
7	Very Strong	
8	Severe 💻	
9	Violent	
10	Extreme	

Description and Damage

Severe - Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned.

Kirkland

Violent - Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations.





Associated with the earthquake

Aftershocks

- Japan's magnitude 9.0 in 2011 preceded by a 7.5 foreshock and multiple aftershocks the largest was a 7.9
- New Zealand magnitude 7.0 was followed by a 6.1 aftershock five months later
 - Caused more damage to Christchurch than the main shock

- Landslides and Liquefaction
 - 2001 Nisqually earthquake
 - triggered a landslide 3 days later
 - caused liquefaction at Boeing Field



http://peer.berkeley.edu/publications/nis qually/geote ch/liq uefa ction/airp orts/ind ex. html



Seiche — a standing wave oscillating in a body of water

- A seismic seiche will impact communities around Lake Washington
- This video shows a seiche in a hotel swimming pool during earthquake in 2010 in South
 America

The Five — Day Functional Exercise

- Tuesday Friday, June 7- 10, 2016
 8 a.m. 5 p.m. daily
 - Activate the Emergency Operations Center (EOC)
 - Master Scenario Exercise List (MSEL)
 600 injects 2 hour shifts
 - For city employees
- Saturday June 11, 8 a.m. Noon
 - EOC will support the Stone Soup Center at Inglewood Presbyterian Church (Finn Hill)
 - For CERT, ARES, MYN and community members

Partnerships

- Local County State Federal
 - The Washington Air National Guard
 - Northshore Utilities District
 - Emergency Managers from the cities of: Bothell, Bellevue, Redmond, Mercer Island, Shoreline, and the Northshore Emergency Management Coalition
 - Hope Comfort Dogs
 - Field Innovation Team (Denver)
 - Greater Kirkland Citizen Corps Council
 - Community Emergency Response Teams
 - Amateur Radio Emergency Services
 - Alliance of People with DisAbilities
 - Tzu Chi Buddhist Disaster Relief Foundation



Engaging the Community

- Saturday June 11th 8 a.m. 12 Noon
- Inglewood Presbyterian Church
 - 7718 NE 141st St, Kirkland, WA 98034
- Please let the Office of Emergency Management know you are attending:
 - pjhooper@kirklandwa.gov
- Partnerships and engagement from all are welcome and encouraged!

- 7:30 a.m. Check in opens
- 8-9 a.m. Cascadia Subduction Zone Exercise Overview and walkie-talkie training for teams
- 9-11 (break out activities)
 - Do -Tank
 - Neighborhood Response Ops
- 11:10 Kirkland Drone Team
- 11:30 Lunch, Do-Tank
 Presentations and Hot Wash
- Noon thanks for participating!



Schedule of Events for Saturday June 11 th Community Cascadia Rising Functional Exercise – Inglewood Presbyterian Church Kirkland			
Time	Location	Activity	And
7:30	IPC	Check In Opens	
8 – 9	Large Meeting Room in IPC	Cascadia Subduction Zone Exercise Overview Team Introductions and missions: CERT Greater Kirkland Citizen Corps Council Map Your Neighborhood Field Innovation Team King County Medical Reserve Corps Northshore Water Utilities ARES/KECT - Walkie Talkie Training	
9-10	IPC Music Room	Do-Tank ■Field Innovation Team - Envisioning Kirkland Post Incident	Community Water Container Fill Drill
	Finn Hill Neighborhood surrounding IPC	Neighborhood Response Operations ■CERT Field Teams and emergent community volunteers	Northshore Water Utilities and Kirkland
		Break	CERT teams will assist community members
10:10 - 11:10	IPC Music Room	Do-Tank ■Field Innovation Team - Envisioning Kirkland Post Incident	fill disaster water containers from the special rig on the fire
	Finn Hill Neighborhood surrounding IPC	Neighborhood Response Operations	hydrant in front of the church.
11:10 -11:30	IPC Community Garden	Kirkland Drone Team ■Search and Rescue demonstration with CERT Field Team	
11:30	IPC Community Garden	Lunch ■Thrive Freeze Dried Food ■Tzu Chi Buddhist Disaster Relief ■Do-Tank Presentations ■Hot Wash (A debrief for compliments, complaints, and suggestions for the next exercise.)	
Noon		Thank you for your participation!	